

***IN THE UNITED STATES PATENT AND TRADEMARK OFFICE***

Applicant: Daiju ITAGAKI et al.  
Title: DIGITAL PROTECTION RELAY WITH  
TIME SYNC FUNCTION  
Appl. No.: 10/669,704  
Filing Date: 9/25/2003  
Examiner: Terrence R. Willoughby  
Art Unit: 2836  
Confirmation Number: 6354

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The instant Information Disclosure Statement is being filed after the mailing date of either a final action under 37 CFR §1.113, a notice of allowance under 37 CFR §1.311, or an action that otherwise closes prosecution in the application. Accordingly, pursuant to 37 CFR §1.97(d), a statement and fee are required.

**RELEVANCE OF EACH DOCUMENT**

Documents A1-A5 listed on the attached PTO/SB/08 were cited in an European Search Report issued in a counterpart European application on December 12, 2006. A copy of the European Search Report is attached.

Documents A1 and A3 belong to the same “patent family,” whereby the English language document may assist the PTO in understanding the content of the non-English language document.

Unless otherwise indicated, no English translation is readily available (not considering machine-generated translations that may be freely available online, to both the Applicants and the PTO) for each of the non-English language documents. However, a commercially available English language abstract is provided herewith, where indicated on the attached Form PTO/SB/08. Inasmuch as Applicants have endeavored to provide at least one item that complies with the requirement for a “concise explanation of relevance” for each of the non-English language documents, each of these documents has been submitted in compliance with the PTO requirements and should be considered by the Examiner (37 CFR §1.97, §1.98 and MPEP §609).

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

**STATEMENT**

The undersigned hereby states in accordance with 37 CFR §1.97(e)(1) that each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to filing of this Statement.

The undersigned hereby states in accordance with 37 CFR §1.704(d) that each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR §1.56(c) more than thirty days prior to the filing of the information disclosure statement.

**FEE**

Fees in the amount of \$180.00 in accordance with 37 CFR §1.17(p) to cover the fee associated with an information disclosure statement under 37 CFR §1.97(d) are being paid by credit card via EFS-Web.

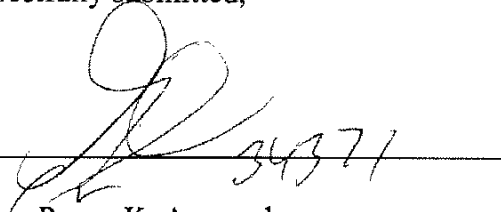
The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by the credit card payment instructions in EFS-Web being incorrect or absent, resulting in a rejected or incorrect credit card transaction, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date: January 11, 2007

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By

A handwritten signature in black ink, appearing to read 'P. Agarwal', is written over a horizontal line. To the right of the signature, the number '34371' is handwritten.

Pavan K. Agarwal  
Attorney for Applicant  
Registration No. 40,888

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Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: January 11, 2007  <i>(use as many sheets as necessary)</i>				Application Number	10/669,704
				Filing Date	9/25/2003
				First Named Inventor	Daiju ITAGAKI
				Art Unit	2836
				Examiner Name	Terrence R. Willoughby
Sheet	1	of	1	Attorney Docket Number	036755-0102

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1	6,714,148 B1	03-30-2004	SAGA ET AL.	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Application Document	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number-Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	A2	JP 2001-109781 A	04-20-2001	TOSHIBA SYST TECHNOL CORP		ABS
	A3	DE 100 36 698 A1	03-08-2001	TOSHIBA KAWASAKI KK		ABS
	A4	JP 11-191919 A	07-13-1999	MEIDENSHA CORP		ABS

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A5	GAO HOULEI ET AL., "Development of GPS Synchronized Digital Current Differential Protection", Power System Technology, IEEE 1998, XP010312803, pgs. 1177-1182	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



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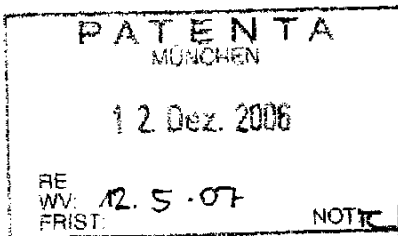
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Date

12.12.06

Reference SUZ644-09682E	Application No./Patent No. 03021504.0 - 2207
Applicant/Proprietor KABUSHIKI KAISHA TOSHIBA	

### COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report (under R. 44 or R. 45 EPC) for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

- ☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division :

- ☒ Abstract ☒ Title
- ☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract : 3

### Refund of search fee

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP 2001 109781 A (TOKYO SHIBAURA ELECTRIC CO; TOSHIBA SYST TECH) 20 April 2001 (2001-04-20) * paragraph [0011]; figure 3 * * paragraph [0020] - paragraph [0028] *	1-4,6-9	INV. H02H7/26 G01S5/14
X	GAO HOULEI ET AL: "Development of GPS synchronized digital current differential protection" POWER SYSTEM TECHNOLOGY, 1998. PROCEEDINGS. POWERCON '98. 1998 INTERNATIONAL CONFERENCE ON BEIJING, CHINA 18-21 AUG. 1998, NEW YORK, NY, USA, IEEE, US, vol. 2, 18 August 1998 (1998-08-18), pages 1177-1182, XP010312803 ISBN: 0-7803-4754-4 * page 1178, paragraph 2 - paragraph 3; figure 1 *	1,6	
A	DE 100 36 698 A1 (TOSHIBA KAWASAKI KK [JP]) 8 March 2001 (2001-03-08) * column 4, line 22 - column 5, line 46; figures 1-3 *	1,6	TECHNICAL FIELDS SEARCHED (IPC)
A	JP 11 191919 A (MEIDENSHA ELECTRIC MFG CO LTD) 13 July 1999 (1999-07-13) * abstract; figure 1 *	1,6	H02H G01S G04G H02J
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 4 December 2006	Examiner Colombo, Alessandro
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 02 1504

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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04-12-2006

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2001109781 A	20-04-2001	NONE	
DE 10036698 A1	08-03-2001	CN 1282995 A	07-02-2001
		JP 2001045646 A	16-02-2001
		SE 519696 C2	01-04-2003
		SE 0002784 A	29-01-2001
		US 6714148 B1	30-03-2004
JP 11191919 A	13-07-1999	JP 3718977 B2	24-11-2005

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